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Apr. 2003

PHOBOS

NODE: RC13

ALARM CODE 818.0
RESTORE 818.1

LOCATION: BLDG. 1010

SYSTEM: PHOBOS MAGNET COOLING - COMMON ALARM

ACTION: DETERMINE WHICH SIGNAL IS IN ALARM AND TURN TO ALARM RESPONSE SHEET FROM LIST BELOW

NODE	SIGNAL NAME	DESCRIPTION	PAGE NO.
RC13	MAGFLO	Magnet Water Flow	818.0-1
RC13	MAGTEMP	Magnet Water Supply Temp.	818.0-2
RC13	MAGLVL	Magnet Water Level	818.0-3
RC13	MAGRESIS	Magnet Water Resistivity	818.0-4
RC13	MAGMKUP	Magnet Water Makeup Gallons	818.0-5

NOTE: IF ALARM IS INTERMITTENT, CHECK MKUP DISPLAY & TREND FOR WATER LOSS

818.0-1

ALARM RESPONSE SHEET - PHOBOS MAGNET COOLING

SIGNAL NAME	DESCRIPTION	ALARM LIMITS
MAGFlOW	Mag Water Flow	(Hi/Lo/LoLo) 150/70/40 GPM

ACTION:

1. Verify low flow ≤70 GPM
2. Advise MCR (Pumps will stop @ ≤40 GPM)
3. Check 1010 Pump Rm Lines for major leak
4. Check other system parameters:
   a) Level is ≥9 inches
   b) Pressure is between 160 and 75 psig
   c) If actual parameters are less than a) or outside limits of b), turn off pump (p4 or p5)
5. Note 3 & 1

NOTE:

1. Record Actions Taken
2. MCR = Main Control Room
3. Call Mech Svcs from "Call In" list

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818.0-2

ALARM RESPONSE SHEET - PHOBOS MAGNET COOLING

SIGNAL NAME	DESCRIPTION	ALARM LIMITS
MAGTEMP	Mag Water Supply Temp.	(H.Hi/Hi/Lo) 110/105/65° F

ACTION:

1. Verify temp is outside limits

2. Verify that tower water temp is within limits. 90/65° F
   a) If not, see that response sheet

3. Verify that tower water flow is within limits ≥75 GPM
   a) If not, see that response sheet

4. For HiTemp alarm Output signal to TCV-100%

4a. If H.Hi temp (105f) is reached, pumps will shut off after 60 seconds

5. Note 3 & 1

NOTE:

1. Record Actions Taken
2. MCR = Main Control Room
3. Call Mech Svcs from "Call In" list

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818.0-3

ALARM RESPONSE SHEET - PHOBOS MAGNET COOLING

SIGNAL NAME	DESCRIPTION	ALARM LIMITS
MAGLVL	Mag Water Level	(Hi/Lo/LoLo) 25/9/2 inches

ACTION:

1. Verify level is outside Hi/Lo limits
2. Inspect area for leaks
3. Notes 1 & 3

NOTE:

1. Record Actions Taken
2. MCR = Main Control Room
3. Call Mech Svcs from "Call In" list

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818.0-4

ALARM RESPONSE SHEET - PHOBOS MAGNET COOLING

SIGNAL NAME	DESCRIPTION	ALARM LIMITS
MAGRESIS	Mag Water Resistivity	(Hi/Lo/LoLo) NA/.5/megohm-cm

ACTION:

1. Verify resistivity is outside limits
2. Observe that flow is thru deionizer
3. Observe deionizer output resistivity (2-16 megohm-cm)
4. Observe that system resistivity rises above .5 megohm
5. If Lo Alarm remains - Note 3 the following morning.

NOTE:

1. Record Actions Taken
2. MCR = Main Control Room
3. Call Mech Svcs from"Call In" list

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818.0-5

ALARM RESPONSE SHEET - PHOBOS MAGNET COOLING

SIGNAL NAME	DESCRIPTION	ALARM LIMITS
MAGMKUP	Mag Water Make-up Flow	(Hi/HiHi) 25 GAL in 10 min 50 GAL in 10 min

ACTION:

1. Check 1010 Pump Room Lines for leak(s).
2. Advise MCR, isolate leaking device
3. Notes 1 & 3

NOTE:

1. Record Actions Taken
2. MCR = Main Control Room
3. Call Mech Svcs from "Call In" list

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PHOBOS

NODE: RC13

ALARM CODE 818.2
RESTORE 818.3

LOCATION: BLDG. 1010

SYSTEM: PHOBOS TOWER - COMMON ALARM

ACTION: DETERMINE WHICH SIGNAL IS IN ALARM AND TURN TO ALARM RESPONSE SHEET FROM LIST BELOW

NODE	SIGNAL NAME	DESCRIPTION	PAGE NO.
RC13	TWRFLOW	Tower Water Flow	818.2-1
RC13	TWRTEMP	Tower Water Supply Temp	818.2-2
RC13	TWRLVL	Tower Water Level	818.2-3

NOTE: IF ALARM IS INTERMITTENT, CHECK MKUP DISPLAY & TREND FOR WATER LOSS

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818.2-1

ALARM RESPONSE SHEET - PHOBOS TOWER COOLING

SIGNAL NAME	DESCRIPTION	ALARM LIMITS
TWRFLOW	Tower Water Flow	(Lo/LoLo) 75/30 GPM

ACTION:

1. Verify flow is outside limits
   a) If flow is <50 advise MCR & turn off pump(s)
2. Check 1010 for major leak
3. Check other system parameters @ 1010:
   a) Pump discharge is between 8 - 20 psig
   b) Pump suction is between +2 & -20 in Hg
   c) Tower basin water level >2.0 FT
4. Note 3 & 1

NOTE:

1. Record Actions Taken
2. MCR = Main Control Room
3. Call Mech Svcs from "Call In" list

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818.2-2

ALARM RESPONSE SHEET - PHOBOS TOWER COOLING

SIGNAL NAME	DESCRIPTION	ALARM LIMITS
TWRTEMP.SUP	Tower Water Supply Temp	(Hi/Lo/LoLo) 90/65° F

ACTION:

1. Verify temp is outside limits

2. Check that tower fan switch is in Auto
   a) If not, place switch in Auto

3. For HiAlarm fan should be in HiSpeed and water flow to top of tower
   a) If not, redirect water to top with tower valve
   b) If fan does not operate in Auto, place fan switch in manual, slow speed fwd and observe temp.
   c) Place in HiSpeed fwd only if temp remains above 90° F

4. For LoAlarm fan should be off

5. Notes 1 & 3

NOTE:

1. Record Actions Taken
2. MCR = Main Control Room
3. Call Mech Svcs from "Call In" list

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818.2-3

ALARM RESPONSE SHEET - PHOBOS

SIGNAL NAME	DESCRIPTION	ALARM LIMITS (Lo/LoLo)
TWRLVL	Tower Water Level	25/20 (29.25"-32.75"=Normal)

ACTION:

1. Verify level is outside Lo limits
   a) Pumps shut down @ ≤25"
2. Inspect B1010 pump room and tower for leaks.
3. For Low Level:
   If no leaks check that TWRMKUP.OK light is on.
   If not: Open bypass valve at solenoid until level = 32.75", then close bypass valve.
4. Notes 1 & 3

NOTE:

1. Record Actions Taken
2. MCR = Main Control Room
3. Call Mech Svcs from "Call In" list

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